

SHARP

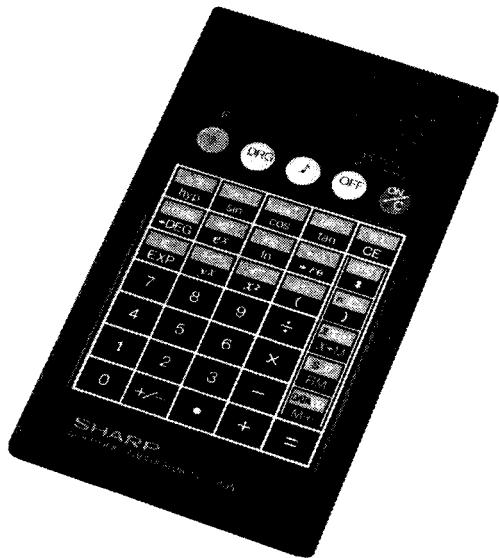
# SERVICE MANUAL



SHAR-03693

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**MODEL EL-5808**

## 1. SPECIFICATIONS

### (1) Keys' layout

F	DRG	$\mu$	OFF	POWER ON/C
$1/x$	$\sin^{-1}$	$\cos^{-1}$	$\tan^{-1}$	$n/$
hyp	sin	cos	tan	C E
-DMS	$10^x$	log	$\rightarrow x y$	STAT
-DEG	$e^x$	ln	$x^\theta$	$\downarrow$
$\pi$	$3\pi$	$\Gamma$	$\Delta \%$	$n\Sigma x$
EXP	$y^x$	$x^2$	( )	
7	8	9	$\div$	$\bar{x} \Sigma x^2$
4	5	6	$\times$	$x \rightarrow M$
1	2	3	-	$S \sigma$
0	$+/-$	.	+	RM
				DATA CD
				M +
				=

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(2) Display: FEM type liquid crystal  
8 digits for mantissa part  
2 digits for exponent part

● Character's shape

M / 2 3 4 5 6 7 8 X10 88.

M: Memory symbol  
-: Minus symbol  
E: Error symbol  
STAT: Statistical program symbol  
DEG: Degree symbol  
RAD: Radian symbol  
GRAD: Grad symbol  
X10: Exponent portion displays symbol  
●: Battery indicator

(3) Automatic power off function: 7±3 minutes  
(4) LSI: SC3759  
(5) Dimensions: 5(H) x 71(W) x 127(D) mm  
3/16"(H) x 2-25/32"(W) x 5"(D)  
(6) Power supply: Silver oxide battery G-10G x 2  
(Please note that only Eveready model 389, and Ray-O-Vac model RW49 or equivalent should be used)  
(7) Operating time: Approx. 600 hours of operation at silent mode.  
(Display 5555. at ambient temperature 20°C (68°F))  
Approx. 450 hours of operation  
(1111  5  at ambient temperature 20°C (68°F))

## 2. SERVICING

(1) Disassembly Procedure

1. Turn over the set.
2. Take out the bottom panel after loosing the two screws that is securing the bottom panel (Fig. 1).
3. Pull out the two batteries (Fig. 2).
4. Carefully peel off the black masking sheet which is applied to the chassis. (Fig. 2)
5. Remove soldered leads of the PWB at three portions (Fig. 3 \* mark)
6. Take out the chassis after remove the two pawls that is securing the chassis (Fig. 3  mark)
7. Take out the PWB unit after remove the three pawls that is securing the PWB unit. (Fig. 3  mark)

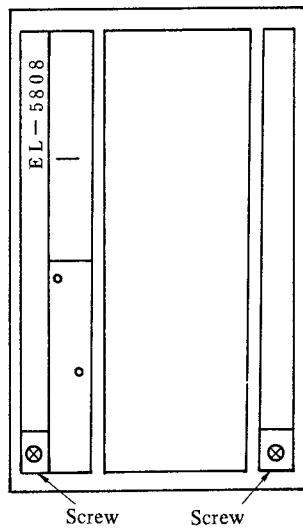


Fig. 1

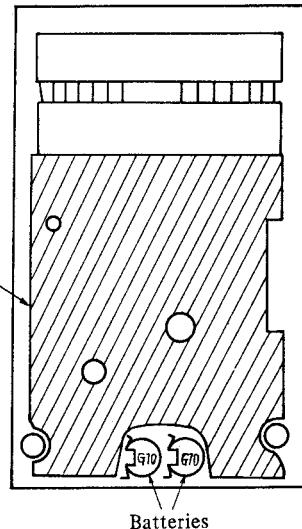


Fig. 2

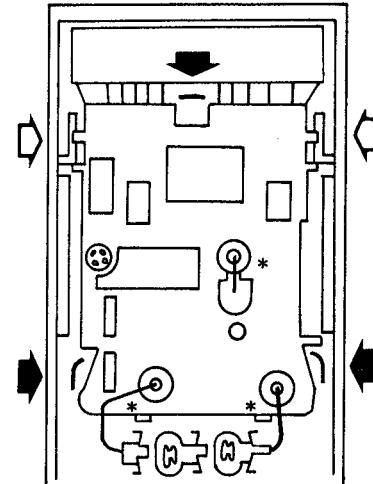
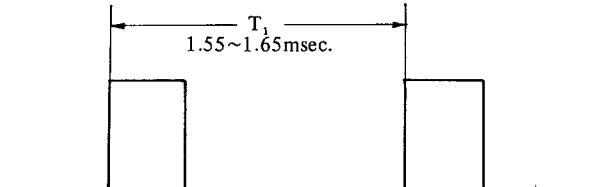


Fig. 3

(2) Control adjustment

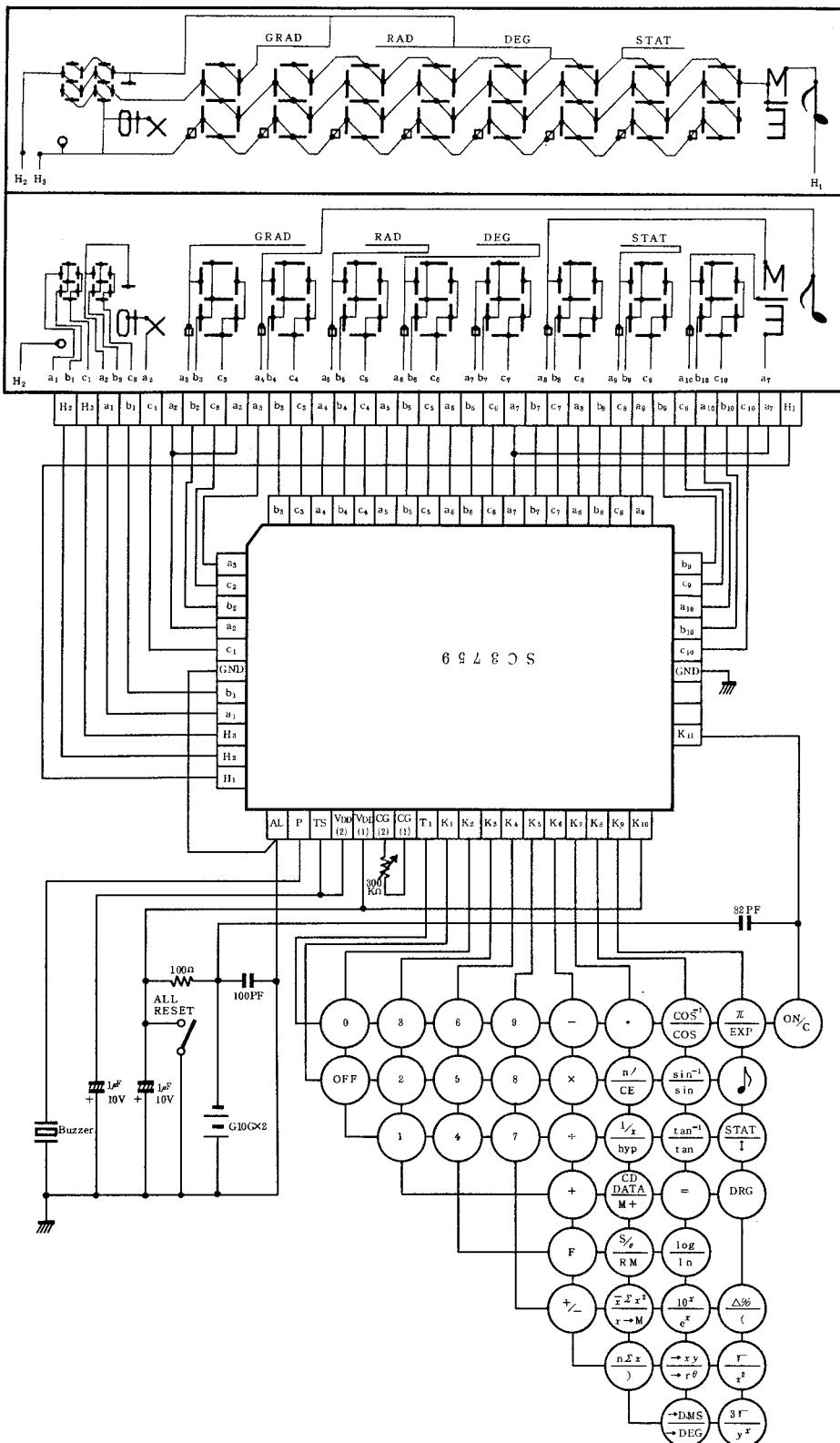
Keep  $V_{in}$  to  $3.15 \pm 0.05V$  make sure that the signal  $T_1$  is within the range of  $1.55\text{msec} \leq T_1 \leq 1.65\text{msec}$ . If the above value is not satisfied, adjust it by using the control variable resistor.



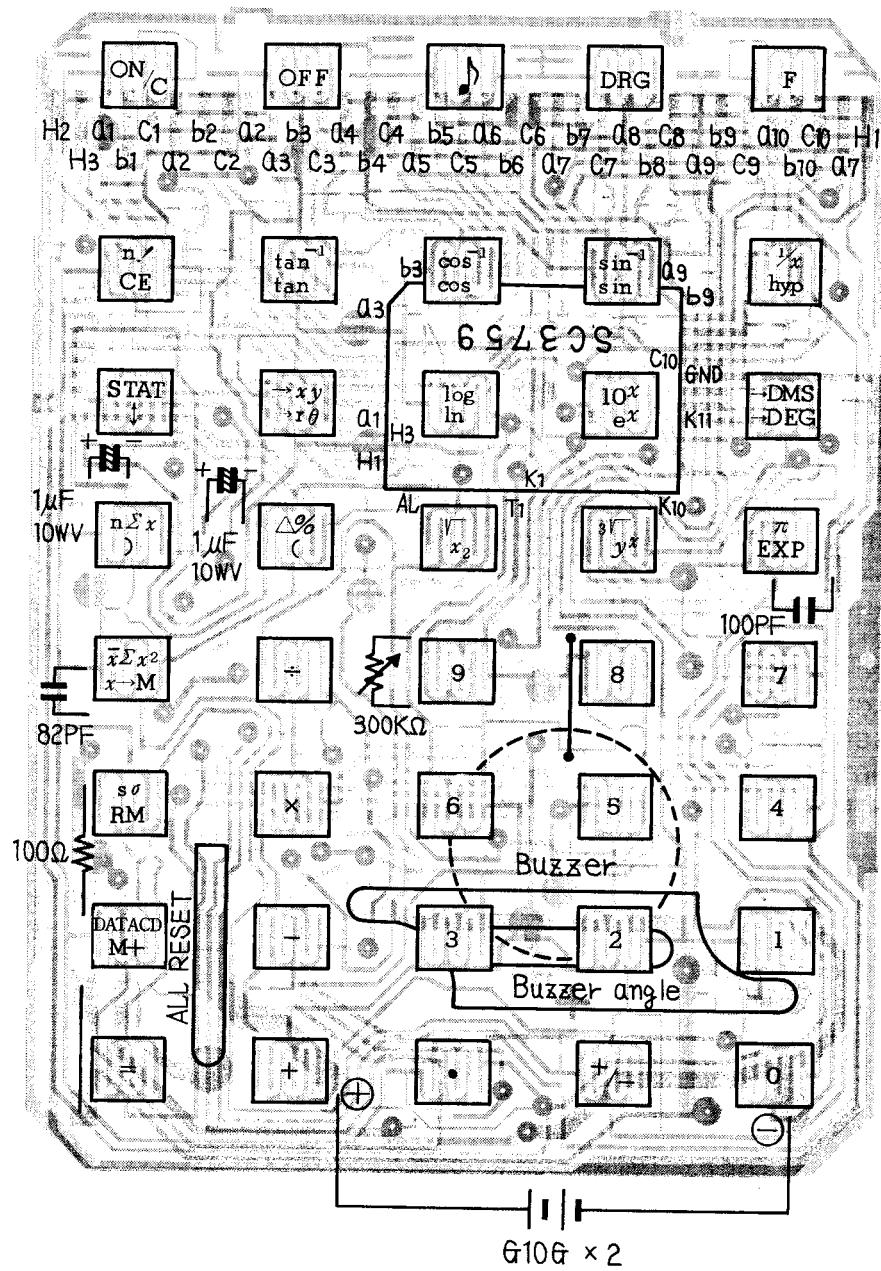
(3) All reset switch

This is located on the back of the calculator. You should use this switch only when you can't clear the machine by touching the **ON/C** key after the battery replacement.

### 3. CIRCUIT DIAGRAM

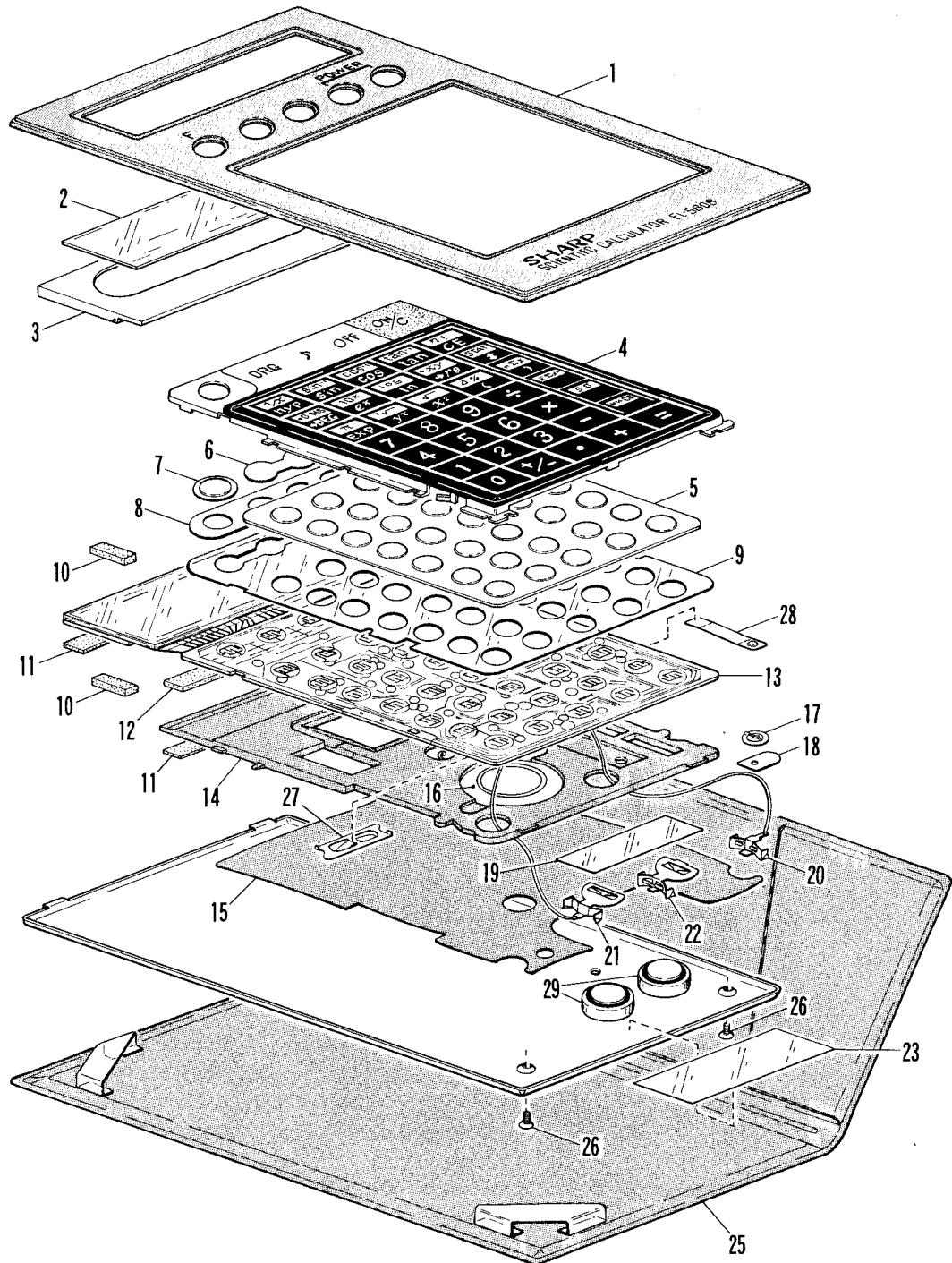


## 4. PARTS & SIGNAL POSITION

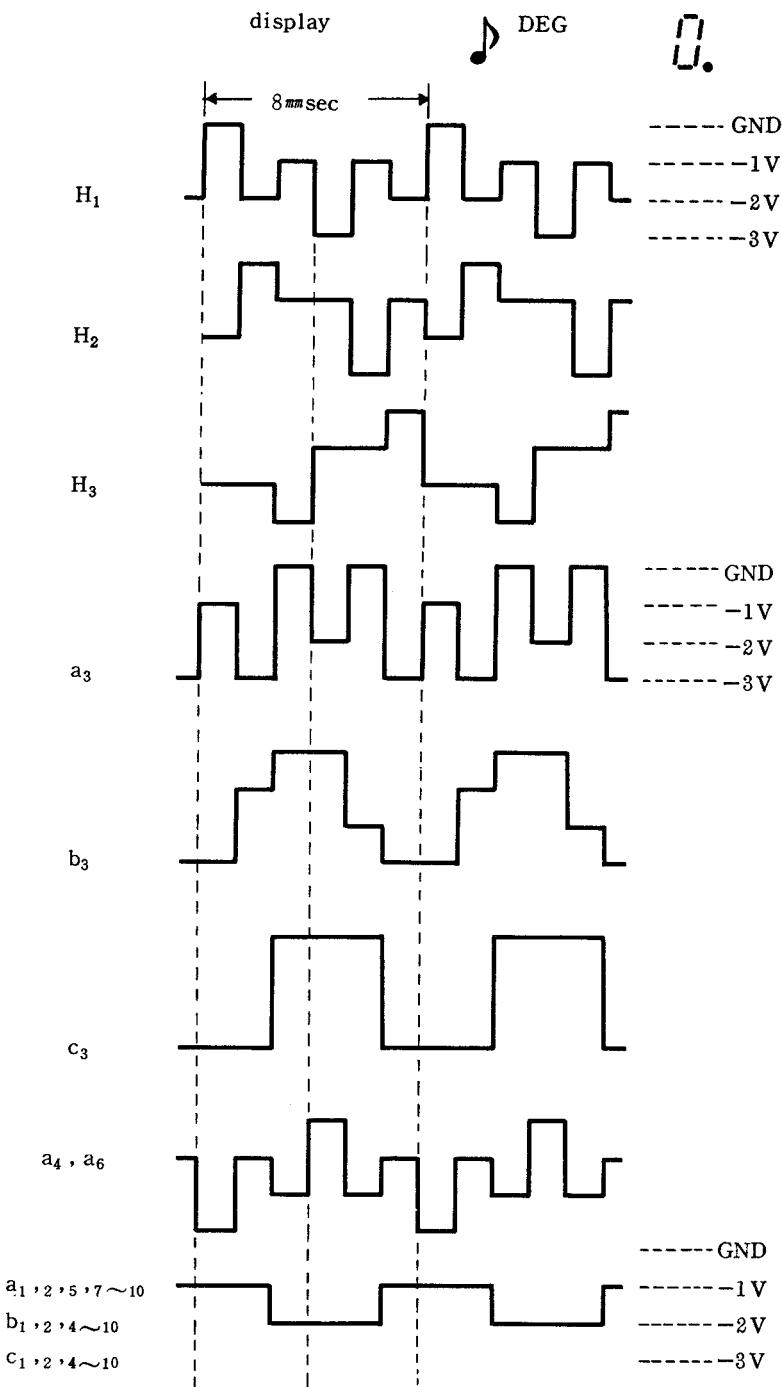


## 5. PARTS LIST

## 6. PARTS GUIDE



## 7. SIGNAL WAVEFORM



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